

# SAN BERNARDINO COUNTY

## FLOOD CONTROL DISTRICT



### ZONE 1

### ADVISORY

### COMMITTEE



Fiscal Year 08/09 Budget Hearing  
City of Rancho Cucamonga  
Tri-Communities Room  
May 22, 2008



# **SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT ADVISORY COMMITTEE MEETING**



**ZONE 1  
FY 2008/2009 BUDGET HEARING  
May 22, 2008  
9:00 A.M.**

## **A G E N D A**

1. Open Meeting and Introduce Zone Advisory Committee Members and Staff
2. Approve Quarterly Meeting Minutes dated September 13, 2007
3. Foothill Basins Update
4. FEMA Levee Certification Project
5. Project Status
  - Construction
  - Planning/Engineering
6. Budget and Construction Program
  - Status of Present Fiscal Year 2007/2008
  - Fiscal Year 2008/2009 Budget Study
  - 10-Year Plan
7. Budget Workshop
8. Public Comments
9. Recommend Fiscal Year 2008/2009 Budget to Board of Supervisors
10. Tentative Next Meeting Date – September 18, 2008 @ 9 am – City of Rancho Cucamonga, Tri-Communities Room.
11. Adjournment



# ZONE 1 BASIN STATUS

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- All basins in Zone 1 are currently estimated to have over 90% of their capacities available; all will be 100% before the next season.
- San Antonio Heights Basins: about 110 cubic yards of material was removed at a cost of \$10,612.
- Operations began cleaning out Day Basin at the end of April with Deer Basin, Hillside and Cucamonga to follow with completion by the end of May. We may not have the rest of the environmental clearances until September.
- Operations anticipates a few thousand cubic yards of removal from the larger basins (Cucamonga, Deer, Day, Etiwanda, and San Sevaine) and a few hundred cubic yards of removal for the smaller basins.



# **PRIORITY PROJECTS**

## **STATUS**

# ZONE 1 PRIORITY PROJECTS

RANK	AGENCY	1987 PROJECT	CURRENT PROJECT	STATUS
1	Upland	9th Street Storm Drain	South Upland Storm Drain (SUSI)	completed 1990
2	Rancho Cucamonga	Hermosa-Turner Storm Drain	Hermosa-Turner Storm Drain	completed Dec. 2004
3	Montclair	San Bernardino Storm Drain	San Bernardino Storm Drain	completed 1987 (Ph I) and 1995 (Ph II)
4	Fontana	West Fontana Channel	West Fontana Channel Ph I, I basin & II	funding available 14/15
5	Ontario	4th Street Storm Drain	Francis Street Storm Drain ***	funding available 15/16
6	Chino	Yorba Ave. Storm Drain	Little Chino Creek Channel *	completed Jan. '99
7	Chino Hills	Not Available	English Channel/Peyton Dr. **	to be constructed by City in 2007 (District funding available 15/16)

\* Per City of Chino request dated May 5, 1993

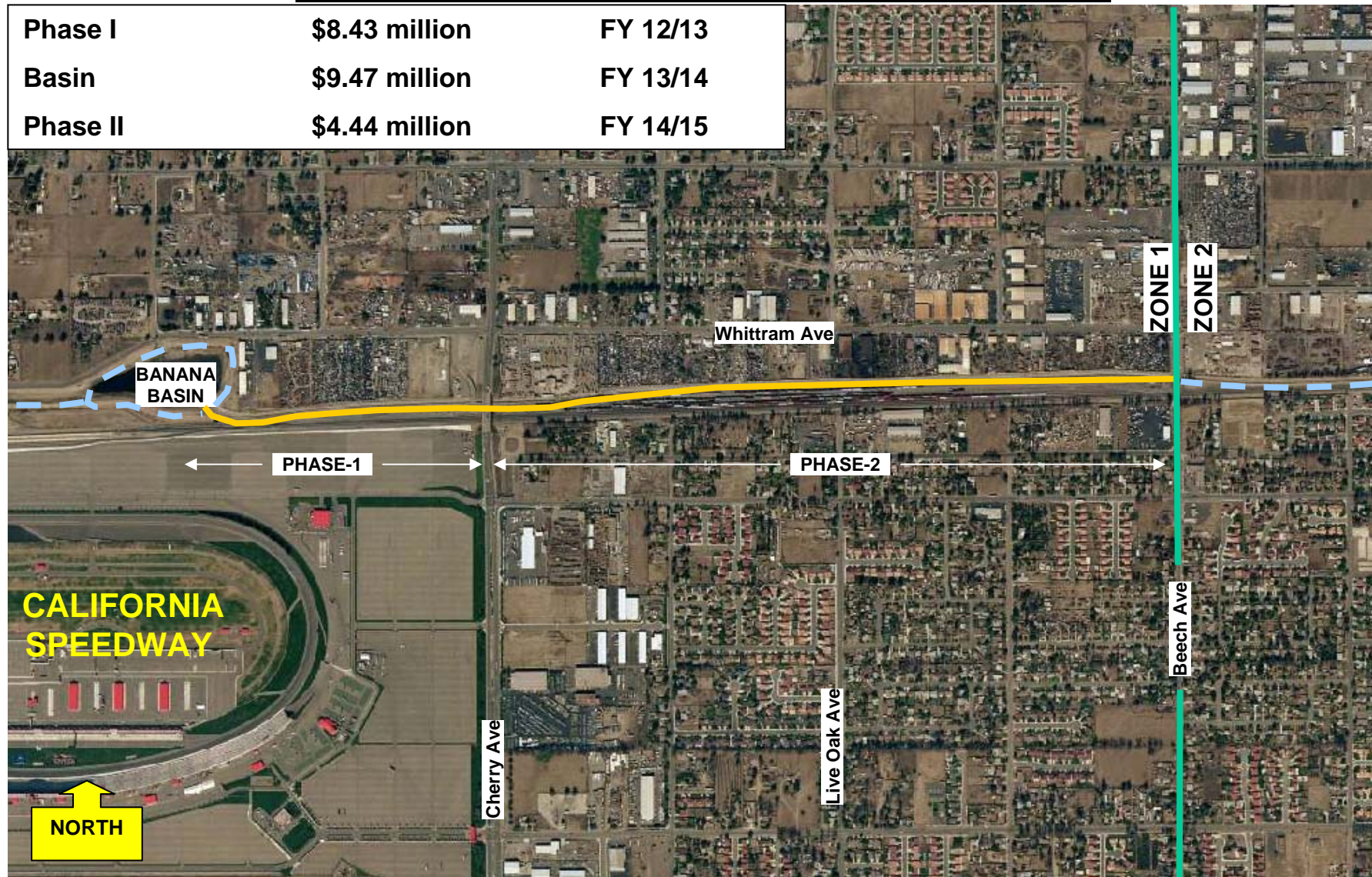
\*\* Per City of Chino Hills request dated March 1, 1993 to be included in participation formula

\*\*\* Per City of Ontario request 1999 and 2000



# FONTANA - West Fontana Channel

Phase I	\$8.43 million	FY 12/13
Basin	\$9.47 million	FY 13/14
Phase II	\$4.44 million	FY 14/15



The project scope is to design and construct a concrete lined channel from Banana Basin to Beech Ave. with a basin in the Zone 2 portion of the project, at the current estimated project cost of \$25.8 million not including R/W. RDA and the City of Fontana have agreed to cost share 10% and 25% of project costs respectively. Zone 2 will contribute 30% of the District cost for the improvements to the Basin, which will reduce the downstream facility sizes.

Phase 1, from Banana Basin easterly to Cherry Ave. including a detention basin within Zone 2, is on hold. Phase 2 of the project is from Cherry Ave. to Beech is also on hold. The last phase of the project is a portion of the channel from the new basin to Citrus in Zone 2.



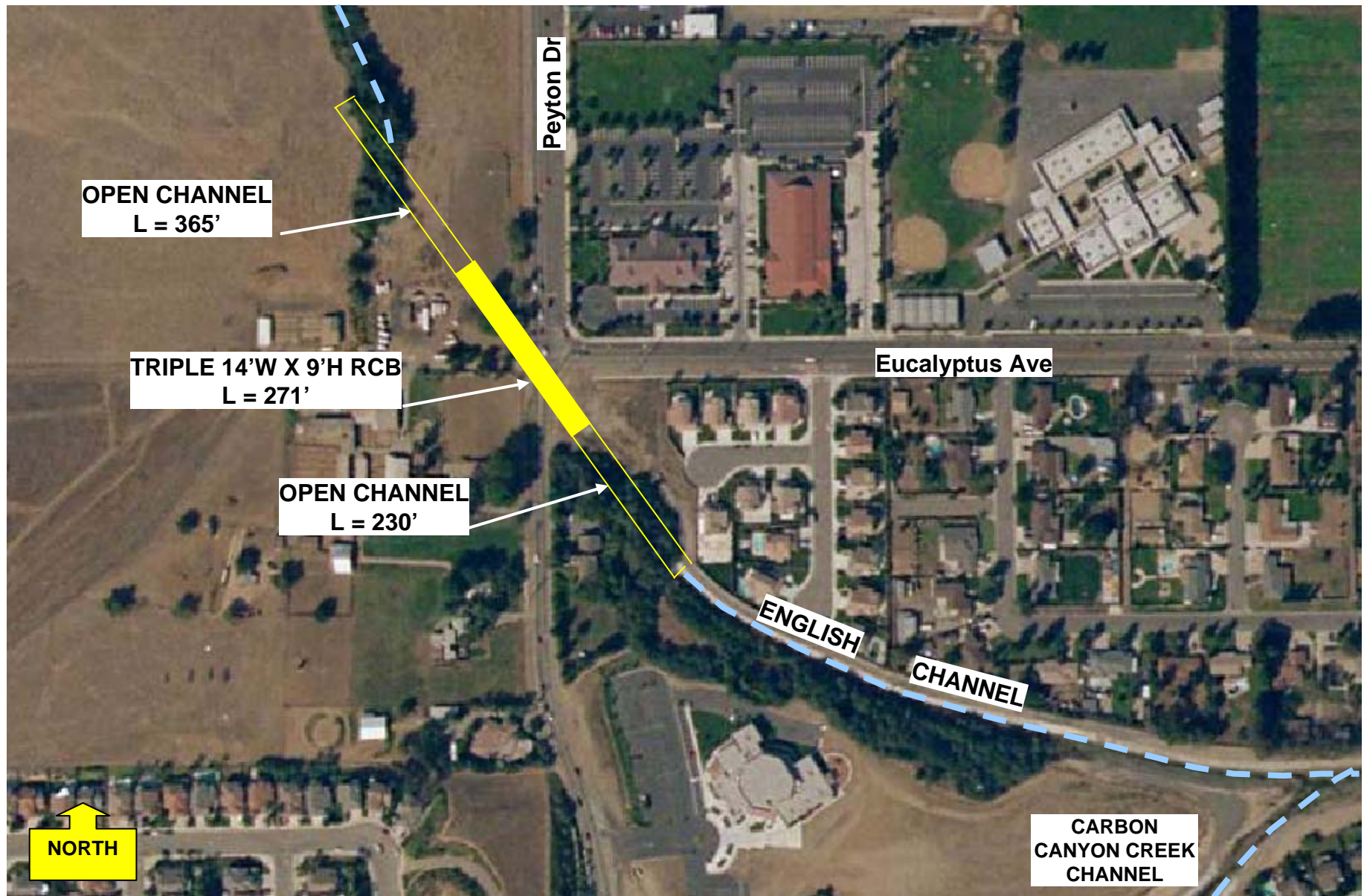
# ONTARIO – Francis Street Storm Drain



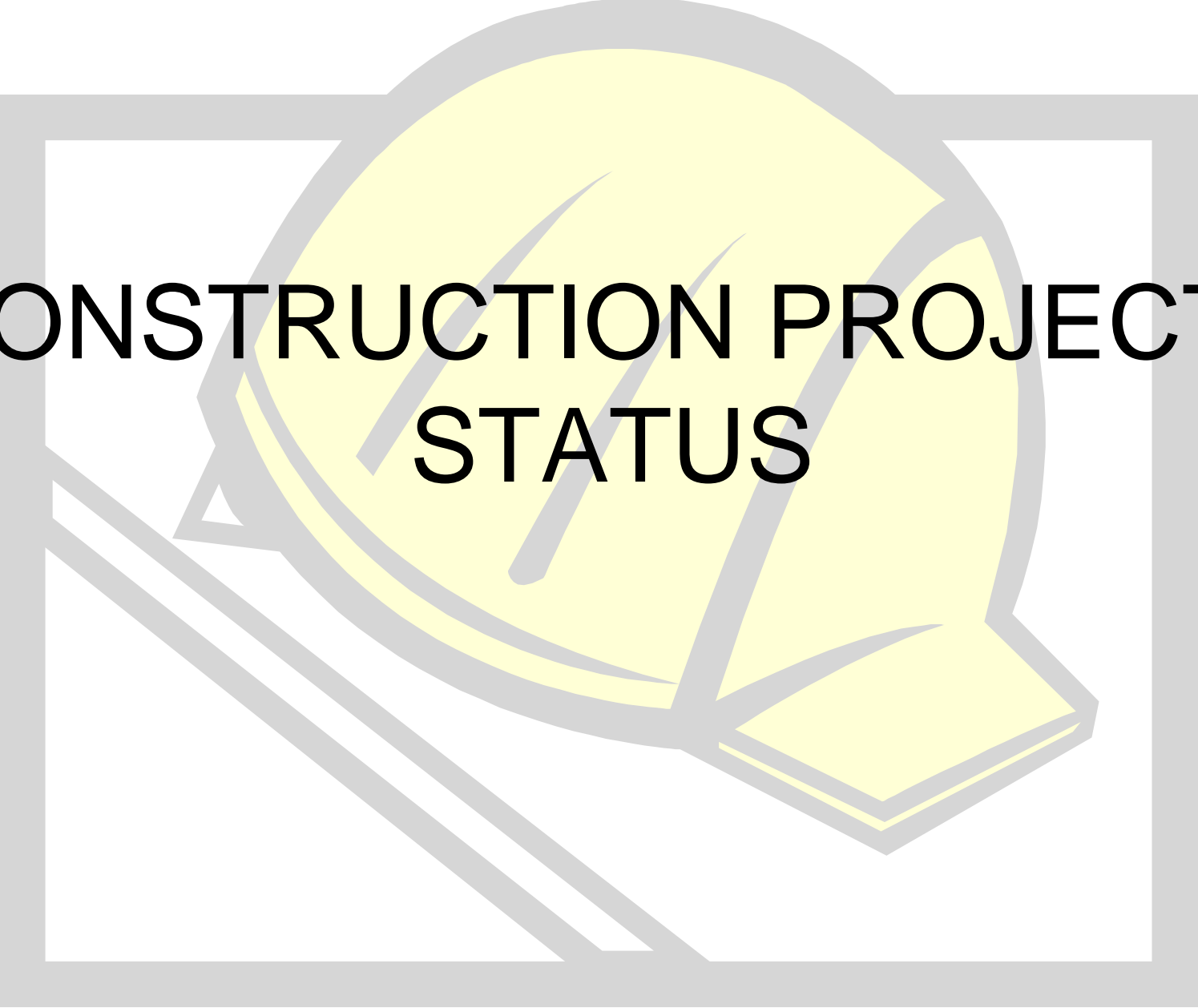
Francis Street Storm Drain is an interim regional Storm Drain operated and maintained by the District. The City has identified a need to construct ultimate improvements to this facility. The current construction cost are estimated at \$8.5 million where the District share shall be 75% of the project cost. The City will be the lead agency, to prepare all construction plans, specifications and cost estimates and accomplish construction administration. The District funding will be available in FY 15/16.



# CHINO HILLS - English Canyon at Peyton Drive



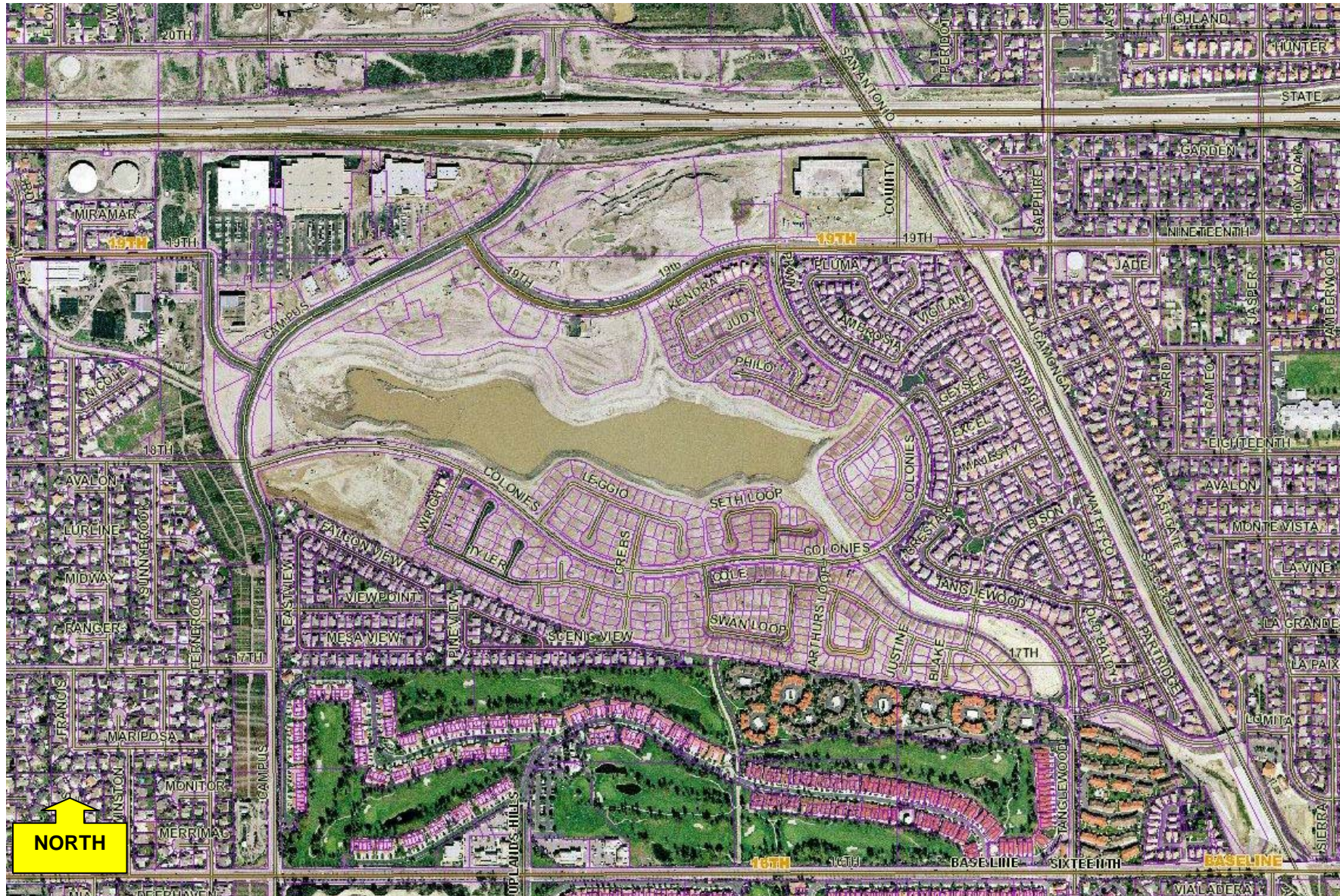
City of Chino Hills has selected RBF Consulting to accomplish preliminary engineering studies and environmental documents for this Priority Project. Meetings between City, Consultant and District have established hydrology and hydraulic design requirements for the proposed triple 14' x 9' RCB crossing at Peyton Avenue. The revised environmental document is en route to FHWA for review. The City expects construction to start in summer 2007. City has obtained EPA grant towards partial funding of the project with the District contributing \$433,208 for preliminary engineering, right-of-way and preparation of construction plans. ZAC recommended \$300,000 allocation of Zone 1 funds into this project in FY 05/06 with the remaining funding to be paid when available from the priority project funds. Currently the expected District funding date is FY 15/16.



# CONSTRUCTION PROJECTS STATUS



# UPLAND – Cucamonga Basin #6



Project is to improve the existing Cucamonga Basin #6. Preliminary cost estimate is \$20 million. The District has construction scheduled to commence January 2009. The project needs to be completed by December 2010.



# ONTARIO - Sultana Cypress Storm Drain



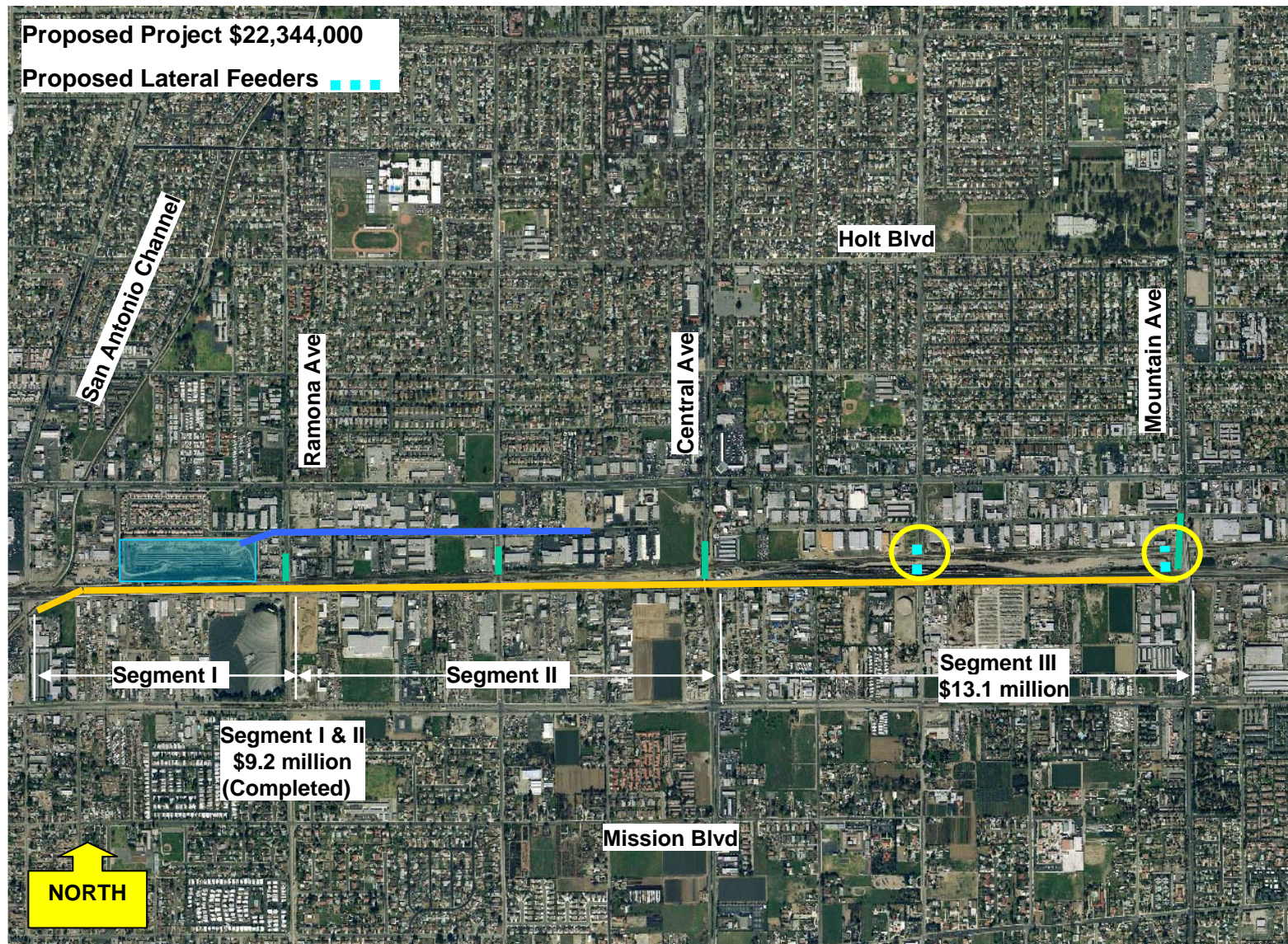
Natural Resources Conservation Service (NRCS) made available a grant to the District for use in developing the last piece in the umbrella of protection for the Chino Dairy Preserve, by intercepting the storm flows entering along the northerly boundary. The grant provides for NRCS reimbursement for 85% of the construction cost up to a maximum of \$5.6 million. The existing Sultana/Cypress Channel will be reconstructed from Walnut Street to Euclid Avenue. The proposed project is from Euclid Ave to Philadelphia St. and the estimated project cost is \$10 million.

The project was separated into two phases to meet NRCS time schedule. Phase 1 included the construction of channel walls from Chino Avenue northerly to San Antonio Avenue. The construction was completed for \$137, 800 in June 2003.

Per current schedule, funding for the construction of Phase 2A (jacking) will be available in 08/09 at a current estimated cost of \$3.10 million (including contingencies and contract admin.). Funding for the construction of Phase 2B (mainline) will be available FY 09/10 at a current estimated cost of \$7.4 million (including contingencies and contract administration.)



# MONTCLAIR - West State Street Storm Drain

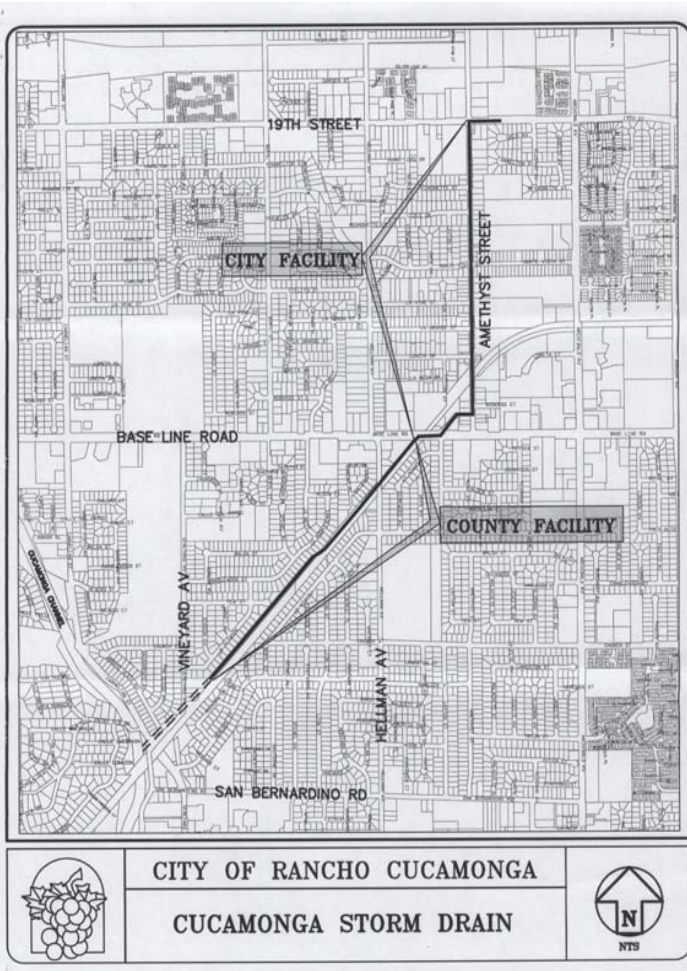


Segment #1 (San Antonio Channel to Ramona Ave.) and Segment #2 (Ramona to Central) construction was completed in June 2003 at a final construction cost of \$9,226,480, including \$800,000 in construction management.

Segment #3 includes channel construction (Central to Mountain) and jacking of double-box culvert under railroad tracks at Mountain Ave. and Benson Ave. The contract for the jacking was completed in February 2005 for \$3,974,625. Start of construction of Segment #3 channel is scheduled for FY 12/13. Estimated construction cost for this channel portion is \$9.143 million.



# RANCHO CUCAMONGA – Cucamonga Drain



Project is to upgrade Cucamonga Storm Drain, from Cucamonga Channel to Amethyst Avenue, to meet current District standards. City is acting as lead on this project and will accept operation and maintenance of facility after improvements. Construction cost estimate = \$4.5 million. District share is \$2.6 million.



# ETIWANDA/SAN SEVAINE CREEKS - UPPER REACH

## **San Sevaire Basin #5**

Improvements included expansion of the existing basin to provide the capability to reduce the Q100 inflow of 13,000 cfs to an outlet flow of 5,000 cfs. Contract was awarded May 20, 2003 to SEMA Construction for \$9,461,669. In addition, a contract for \$460,600 was awarded to AMEC Earth & Environmental to provide geotechnical and technical services; and a contract was awarded to Pacific Southwest Biological Services for \$31,000 to provide biological services. Work consists of enlarging the basin floor, raising southern levee 30 to 40 feet, reconstructing spillway to 200 feet wide, 10 ft. x 8 ft. Reinforced Concrete Box (RCB) outlet, paved access roads and water conservation improvements. Basin will have 2350 ac-ft maximum storage and 234 ac-ft conservation storage. Construction was completed October 2004 and the final contract amount was \$10,928,266. (Completed October 1, 2004)

## **Etiwanda Debris Basins & Levees and–**

### **Etiwanda Channel – 24th Street (Wilson) to San Sevaire Basin #5**

Construction of approximately 4,300 linear feet of 11-foot high by 24-foot wide rectangular reinforced concrete channel, with reinforced concrete box culverts at 24th Street (Wilson Avenue), old Banyan Street (old Summit Avenue) and at realigned new Banyan Street has been combined with the debris basin and levees project. Four Biological Opinions were issued by the US Fish and Wildlife Service (May 9, 1995, February 7, 2002, May 31, 2003 and October 24, 2003). Field geotechnical studies were completed by the consultant, AMEC Earth and Environmental Consultants (formerly AGRA) in July 2002 and the Seismic Report was submitted in August 2002 and approved by the District. Tetra Tech, Inc was selected in May, 2003 to provide final design and construction support services. Design contract is \$336,437. Final plan and specifications were approved by DSOD and the Board on January 25, 2005. The Board awarded the contract to Yeager Skanska Inc. of Riverside, California on June 7, 2005 in the amount of \$26,410,088. Construction started July 5, 2005. The remaining work is all within the debris basin portion. Construction & material processing should be completed by Summer 2008. (July/August, 2008)

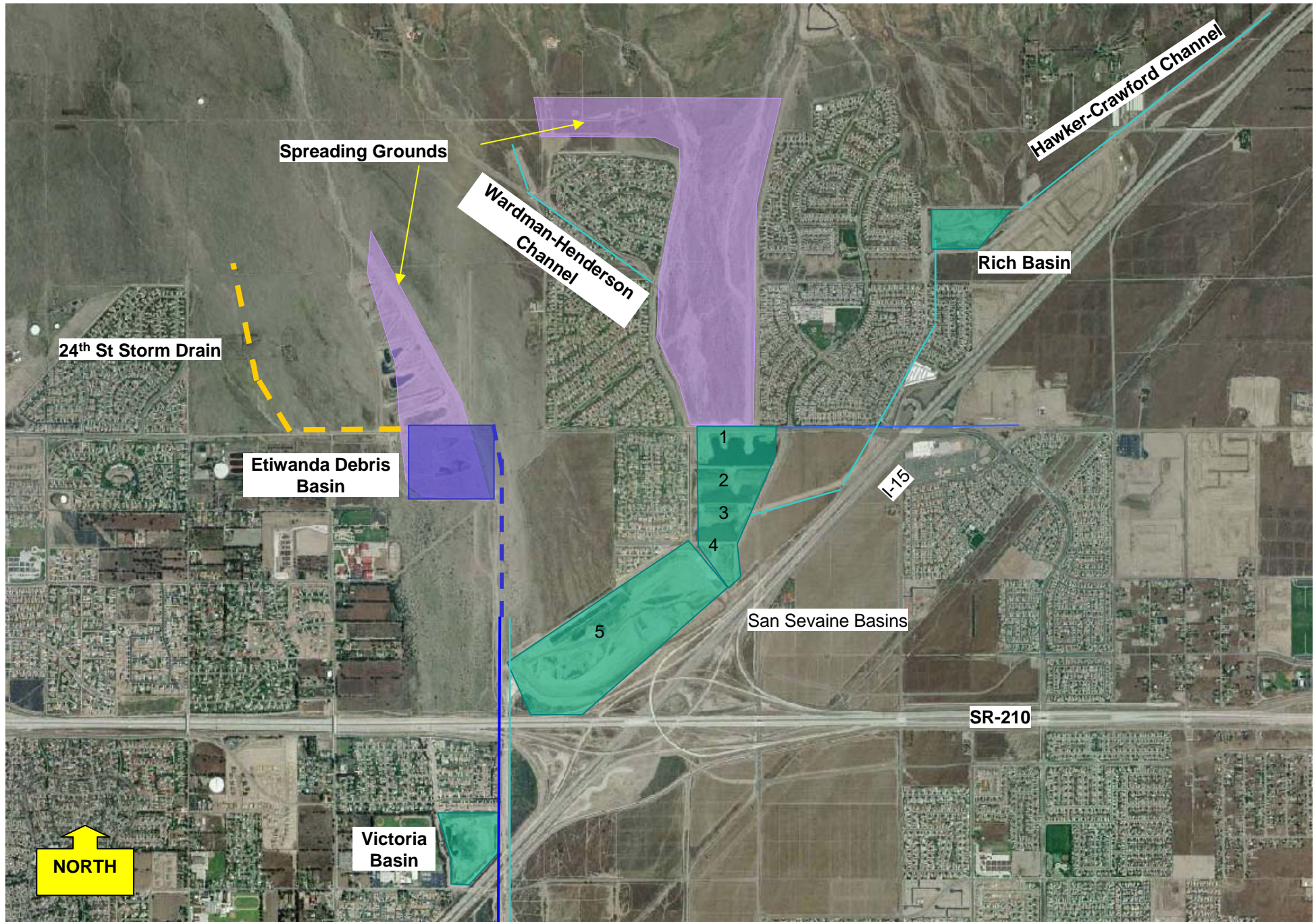
## **Turnout from Etiwanda/San Sevaire into Victoria Basin**

IEUA completed the turnout from Etiwanda Channel. Per the District's agreement with IEUA, IEUA was to construct the turnout from San Sevaire Channel to Victoria Basin for \$150,000. Due to San Sevaire Channel being damaged during the Christmas Day storm of 2003, the District will construct the San Sevaire Channel turnout when the damaged portion of San Sevaire Channel is repaired. The estimated cost of construction is \$2.35 million. Construction is anticipated in Spring 2009.

## **San Sevaire Basins 1-4**

Proposed improvements for San Sevaire Basins 1 through 4 are not included in the overall Bureau of Reclamation project but are necessary for the completion of the entire system. The current cost estimate for a study and design is \$4 million. Funding is currently shown as available in FY 10/11.

# ETIWANDA/SAN SEVAINE CREEKS – UPPER REACH





# ETIWANDA/SAN SEVAINE CREEKS - MIDDLE REACH

## **Etiwanda at Foothill -**

While the existing San Sevaine Channel passes under Foothill Blvd and proceeds down an improved channel, the existing Etiwanda Channel passes under Foothill Blvd through an old bridge, and veers at a sharp angle to the south-west into the undeveloped Etiwanda creek.

The project will construct a new reinforced concrete double-box structure under Foothill Blvd., adjacent to the existing double-box structure and combine the flows from Etiwanda and San Sevaine systems, as they travel south of Foothill Blvd. The existing bridge structure will be demolished and backfilled. The limits are from approximately 50-feet south of Foothill Blvd. to 930-feet upstream of Foothill Blvd.

The design calls for a double-box structure to be added onto the west side of the existing double-box structure. Each box will be a 12-ft x 12-ft reinforced concrete box and will be about 128-ft in length under the entire traveled way of Foothill Blvd. Approximately 800-ft of the reinforced concrete channel upstream of Foothill Blvd will be constructed to direct the flows safely into the new reinforced concrete double-box structure. This upstream portion of the channel will be constructed to match up to the existing Etiwanda Channels' vertical concrete walls, already in place. Likewise, a 50-ft channel wall transition section will be built on the west bank of the south side of the new reinforced concrete double-box structure to join the existing trapezoidal channel downstream.

The District has entered into an agreement with the City of Rancho Cucamonga to construct East Avenue Storm Drain Line 8 Improvements in conjunction with the Etiwanda Channel Improvements at a cost of approximately \$330,000. This will allow the East Avenue Storm Drain to be constructed across Foothill Blvd. at the same time that portions of Foothill Blvd. are shut down for construction of the new reinforced concrete double-box structure.

The project is estimated be at approx. \$2.5 million, including construction administration, Inspection, material testing, and surveying. Plans and Specifications and Approval to Advertise was approved by the Board of Supervisors on January 29, 2008. Project Advertisement started May 6, 2008 and bids are scheduled to be opened on June 12, 2008. Project Award is scheduled for July 8, 2008 and construction should start about the middle or end of July. Construction completion is estimated by the end of December, 2008 or January, 2009. This project will complete the entire San Sevaine/Etiwanda Channel Project.

# ETIWANDA/SAN SEVAINE CREEKS - MIDDLE REACH





# ETIWANDA/SAN SEVAINE CREEKS - LOWER REACH

## **San Sevaire Channel/Jurupa to Philadelphia Ave. –**

Work consists of approximately 4,576 LF of reinforced concrete rectangular channel from Philadelphia Ave. (Riverside Co.) northerly to 600-feet south of Jurupa Ave. Work includes construction of reinforced concrete triple box culvert at Philadelphia Ave. A 4-party agreement between Riverside County Flood Control, Riverside County Transportation, City of Fontana and SFPPP is required for work within Riverside County. Plans and specs are 100% and awaiting environmental clearances. The four party agreement was approved. The RFP for material testing and inspection for both San Sevaire Channel/Jurupa to Philadelphia and San Sevaire Channel/Slover to Jurupa came in at \$635,000. The lowest construction bid came in at \$7.8 million. Construction has been completed. (construction completed April 10, 2007).

## **San Sevaire Channel/Slover to Jurupa Basin –**

Construction of approximately 4,390 lineal feet of  $b = 55"$ ,  $h = 14'$  reinforced concrete rectangular main channel and 3,300 lineal feet of  $b=35'$   $h = 8'$  reinforced concrete weir, diversion channel from Jurupa Basin northerly to Slover Ave. Construction includes chute spillway and stilling basin in Jurupa Basin. Plans and specifications are 99% completed and District is currently resolving issue with DSOD regarding maximum allowable flow into Jurupa Basin. Estimated construction cost is \$18.5 million (including contingencies and contract admin.). Construction is underway. (construction completed October 31, 2007).

## **San Sevaire Channel/Valley to Slover Avenue –**

Construction of approximately 2,920 linear feet of variable widths and heights concrete channel. Work includes relocating 16-inch and 20-inch high pressure fuel lines owned by SFPPP, LP/Kinder Morgan and constructing a four barrel 14-foot by 14-foot cast in place reinforced concrete box at the Union Pacific Railroad crossing. UP Railroad still has to review and approve plans and issue a license agreement to the District for work within UP Railroad right of way. A Board approved agreement with UP Railroad exists stating the District will pay UP Railroad \$112,000 for their consultant to design the shoofly. Railroad may propose to extend the RCB. The channel also crosses under the 1-10 Freeway and an inlet channel connection for Mulberry Channel. Lowest bidder is \$9.3 million with construction estimated to start summer of 2007. Construction will be completed November/December 2008.

## **SFPPP/Kinder Morgan 16" and 20" high Pressure fuel line -**

The District has an agreement with SFPPP/Kinder Morgan and has paid SFPPP/Kinder Morgan \$226,000 to relocate both of their lines. The lines were scheduled to be relocated in summer of 2007 but were delayed. The cost increased to \$2.5 million by Board approved agreements and relocation of both fuel lines were completed by April, 2008.

**Mulberry Channel repair and reconstruction –** Construction of this is being done in conjunction with the San Sevaire Channel Valley Blvd to Slover Ave section and will be completed in November/December 2008.



# ETIWANDA/SAN SEVAINE CREEKS – LOWER REACH

